

## EAST Search History

|     |       |   |                              |    |     |                  |
|-----|-------|---|------------------------------|----|-----|------------------|
| S10 | 3     | (filter\$3 or criteria\$3 or select\$5 or choos\$5) with (deadlock\$3 or failure\$3 or fail\$3) with (flag\$3 or boolean\$2 or semapho\$3) same (victim\$3 or candida\$5)   | USPAT                        | OR | OFF | 2005/07/22 11:15 |
| S11 | 31    | (filter\$3 or criteria\$3 or select\$5 or choos\$5) same (deadlock\$3 or failure\$3 or fail\$3) same (flag\$3 or boolean\$2 or semapho\$3) same (victim\$3 or candida\$5)   | USPAT                        | OR | OFF | 2005/07/22 11:15 |
| S12 | 20    | ("4606002"   "4677550"   "4791561"   "4805099"   "4947320"   "5089952"   "5123104"   "5163148"   "5197702"   "5204958"   "5247684"   "5265224"   "5274809"   "5295262"   "5307487"   "5428761"   "5430869"   "5502840"   "5515538"   "5553267").PN. | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/07/22 11:40 |
| S13 | 14    | S12 and (flag\$3 or semaphor\$3 or bit\$2)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/07/22 11:40 |
| S14 | 44256 | S12 and deadlock\$3 or lock\$2 same (flag\$3 or semaphor\$3 or bit\$2)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/07/22 11:41 |
| S15 | 44404 | "1212" and deadlock\$3 or lock\$2 same (flag\$3 or semaphor\$3 or bit\$2)   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/07/22 11:41 |
| S16 | 44256 | S12 and deadlock\$3 or lock\$2 same (flag\$3 or semaphor\$3 or bit\$2)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/07/22 11:41 |
| S17 | 5     | S12 and (deadlock\$3 or lock\$2) same (flag\$3 or semaphor\$3 or bit\$2)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/07/22 11:42 |
| S18 | 2     | S12 and (deadlock\$3 ) same (flag\$3 or semaphor\$3 or bit\$2)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/07/22 11:42 |
| S19 | 265   | (filter\$3 or criteria\$3 or select\$5 or choos\$5) with (deadlock\$3 or failure\$3 or fail\$3) with (flag\$3 or boolean\$2 or semapho\$3)  | USPAT                        | OR | OFF | 2005/07/22 13:20 |
| S20 | 12    | (filter\$3 or criteria\$3 or select\$5 or choos\$5) with (deadlock\$3 ) with (flag\$3 or boolean\$2 or semapho\$3 or indica\$5)   | USPAT                        | OR | OFF | 2005/07/22 14:03 |

## EAST Search History

|     |        |   |                                 |    |     |                  |
|-----|--------|---|---------------------------------|----|-----|------------------|
| S21 | 3      | (filter\$3 or criteria\$3 or select\$5 or choos\$5) same (deadlock\$3 ) same (flag\$3 or boolean\$2 or semapho\$3 or indica\$5) same resolv\$3  | USPAT                           | OR | OFF | 2005/07/22 13:26 |
| S22 | 4      | (filter\$3 or criteria\$3 or select\$5 or choos\$5) same (deadlock\$3 ) same (flag\$3 or boolean\$2 or semapho\$3 or indica\$5) same (candidat\$3 or victim\$5)   | USPAT                           | OR | OFF | 2005/07/22 14:04 |
| S23 | 20     | ("4606002"   "4677550"   "4791561"   "4805099"   "4947320"   "5089952"   "5123104"   "5163148"   "5197702"   "5204958"   "5247684"   "5265224"   "5274809"   "5295262"   "5307487"   "5428761"   "5430869"   "5502840"   "5515538"   "5553267").PN. | US-PGPUB;<br>USPAT;<br>USOCR    | OR | OFF | 2005/07/22 13:51 |
| S24 | 19     | S23 and (flage\$3 or indicat\$5)  | US-PGPUB;<br>USPAT;<br>USOCR    | OR | OFF | 2005/07/22 13:51 |
| S25 | 4      | S24 and deadlock\$3   | US-PGPUB;<br>USPAT;<br>USOCR    | OR | OFF | 2005/07/22 13:51 |
| S26 | 231022 | (filter\$3 or criteria\$3 or select\$5 or choos\$5) with (flag\$3 or boolean\$2 or semapho\$3 or indica\$5)   | USPAT                           | OR | OFF | 2005/07/22 13:53 |
| S27 | 24     | (filter\$3 or criteria\$3 or select\$5 or choos\$5) with (flag\$3 or boolean\$2 or semapho\$3 or indica\$5) same deadlock   | USPAT                           | OR | OFF | 2005/07/22 13:56 |
| S28 | 34     | (filter\$3 or criteria\$3 or select\$5 or choos\$5) with (flag\$3 or boolean\$2 or semapho\$3 or indica\$5) same deadlock   | US-PGPUB;<br>USPAT              | OR | OFF | 2005/07/22 13:58 |
| S29 | 5      | (filter\$3 or criteria\$3 or select\$5 or choos\$5) same (deadlock\$3 ) same (flag\$3 or boolean\$2 or semapho\$3 or indica\$5) same (candidat\$3 or victim\$5)   | US-PGPUB;<br>USPAT              | OR | OFF | 2005/07/22 13:57 |
| S30 | 36     | (filter\$3 or criteria\$3 or select\$5 or choos\$5) with (flag\$3 or boolean\$2 or semapho\$3 or indica\$5) same deadlock   | US-PGPUB;<br>USPAT;<br>EPO; JPO | OR | OFF | 2005/07/22 13:59 |

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|     |        |   |                 |    |     |                  |
|-----|--------|---|-----------------|----|-----|------------------|
| S31 | 17     | (filter\$3 or criteria\$3 or select\$5 or choos\$5) with (deadlock\$3 ) with (flag\$3 or boolean\$2 or semapho\$3 or indica\$5)                 | US-PGPUB; USPAT | OR | OFF | 2005/07/22 14:00 |
| S32 | 345    | (deadlock\$3 ) with (flag\$3 or boolean\$2 or semapho\$3 or indica\$5)  | US-PGPUB; USPAT | OR | OFF | 2005/07/22 14:02 |
| S33 | 10     | (deadlock\$3 ) same (flag\$3 or boolean\$2 or semapho\$3 or indica\$5) same (candidat\$3 or victim\$5)  | USPAT           | OR | OFF | 2005/07/22 14:03 |
| S34 | 12     | (deadlock\$3 ) with (flag\$3 or boolean\$2 or semapho\$3 or indica\$5).ab.  | US-PGPUB; USPAT | OR | OFF | 2005/07/22 14:03 |
| S35 | 12300  | (flag\$3 or boolean\$2 or semapho\$3 or indica\$5) same (candidat\$3 or victim\$5)  | USPAT           | OR | OFF | 2005/07/22 14:03 |
| S36 | 231022 | (filter\$3 or criteria\$3 or select\$5 or choos\$5) with (flag\$3 or boolean\$2 or semapho\$3 or indica\$5)                                     | USPAT           | OR | OFF | 2005/07/22 14:03 |
| S37 | 4161   | (filter\$3 or criteria\$3 or select\$5 or choos\$5) same (flag\$3 or boolean\$2 or semapho\$3 or indica\$5) same (candidat\$3 or victim\$5)     | USPAT           | OR | OFF | 2005/07/22 14:04 |
| S38 | 143    | (filter\$3 or criteria\$3 or select\$5 or choos\$5) same (flag\$3 or boolean\$2 or semapho\$3 or indica\$5) same (candidat\$3 or victim\$5).ab. | USPAT           | OR | OFF | 2005/07/22 14:16 |
| S39 | 1      | S38 and deadlock  | USPAT           | OR | OFF | 2005/07/22 14:04 |
| S40 | 1      | ("5832484").PN.   | USPAT           | OR | OFF | 2005/07/22 14:52 |
| S41 | 1      | ("5835766").PN.   | USPAT           | OR | OFF | 2005/07/22 15:09 |
| S42 | 774    | 707/8.ccls.   | USPAT           | OR | OFF | 2005/07/22 15:10 |
| S43 | 244    | S42 and flag  | USPAT           | OR | OFF | 2005/07/22 15:10 |
| S44 | 8      | S42 and deadlock\$2 same flag   | USPAT           | OR | OFF | 2005/07/22 15:18 |
| S45 | 2      | S42 and(filter\$3 or select\$5 or choos\$5) with deadlock\$2 same flag  | USPAT           | OR | OFF | 2005/07/22 15:19 |
| S46 | 1      | S42 and(victim\$3 or candida\$5) with deadlock\$2 same flag   | USPAT           | OR | OFF | 2005/07/22 15:20 |
| S47 | 8      | S42 and(victim\$3 or candida\$5) same flag  | USPAT           | OR | OFF | 2005/07/22 15:25 |
| S48 | 1      | ("6539446").PN.   | USPAT           | OR | OFF | 2005/07/22 15:36 |

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|     |      |  |                    |    |     |                  |
|-----|------|--|--------------------|----|-----|------------------|
| S49 | 31   | filter\$3 with (flag\$3) with (resource\$3 or task\$3 or transaction\$3)                         | USPAT              | OR | OFF | 2005/07/22 15:36 |
| S50 | 0    | filter\$3 with (flag\$3) with (resource\$3 or task\$3 or transaction\$3) and deadlock            | USPAT              | OR | OFF | 2005/07/22 15:36 |
| S51 | 1    | filter\$3 same (flag\$3) same (resource\$3 or task\$3 or transaction\$3) and deadlock            | USPAT              | OR | OFF | 2005/07/22 15:52 |
| S52 | 24   | filter\$3 same (flag\$3) and deadlock  | USPAT              | OR | OFF | 2005/07/22 15:51 |
| S53 | 1    | filter\$3 same (flag\$3) same (resource\$3 or task\$3 or transaction\$3) same lock               | USPAT              | OR | OFF | 2005/07/22 15:45 |
| S54 | 1    | filter\$3 same (flag\$3) same (resource\$3 or task\$3 or transaction\$3) same dead               | USPAT              | OR | OFF | 2005/07/22 15:46 |
| S55 | 1    | (filter\$3 or criteria) same (flag\$3) same (resource\$3 or task\$3 or transaction\$3) same dead | USPAT              | OR | OFF | 2005/07/22 16:11 |
| S56 | 264  | (filter\$3 or criteria) same (flag\$3) same (resource\$3 or task\$3 or transaction\$3)           | USPAT              | OR | OFF | 2005/07/22 15:46 |
| S57 | 2    | (filter\$3 or criteria) same (flag\$3) same (resource\$3 or task\$3 or transaction\$3) .ab.      | USPAT              | OR | OFF | 2005/07/22 15:46 |
| S58 | 1    | ("6807540").PN.  | USPAT              | OR | OFF | 2005/07/22 15:51 |
| S59 | 2    | filter\$3 same (flag\$3) same (resource\$3 or task\$3 or transaction\$3) and deadlock            | US-PGPUB;<br>USPAT | OR | OFF | 2005/07/22 15:53 |
| S60 | 264  | (filter\$3 or criteria) same (flag\$3) same (resource\$3 or task\$3 or transaction\$3)           | USPAT              | OR | OFF | 2005/07/22 16:11 |
| S61 | 2    | (filter\$3 or criteria) same (flag\$3) same (resource\$3 or task\$3 or transaction\$3).ab.       | USPAT              | OR | OFF | 2005/07/22 16:13 |
| S62 | 108  | (filter\$3 or criteria) same (flag\$3) with (resource\$3 or task\$3 or transaction\$3)           | USPAT              | OR | OFF | 2005/07/22 16:14 |
| S63 | 1096 | (filter\$3 a) same (flag\$3) with (resource\$3 or task\$3 or transaction\$3)                     | USPAT              | OR | OFF | 2005/07/22 16:14 |
| S64 | 63   | (filter\$3 ) same (flag\$3) with (resource\$3 or task\$3 or transaction\$3)                      | USPAT              | OR | OFF | 2005/07/22 16:20 |
| S65 | 1421 | (filter\$3 ) with (flag\$3)  | USPAT              | OR | OFF | 2005/07/22 16:20 |

## EAST Search History

|     |      |   |       |    |     |                  |
|-----|------|---|-------|----|-----|------------------|
| S66 | 0    | (filter\$3 ) with (base\$3 adj on) with(flag\$3)  | USPAT | OR | OFF | 2005/07/22 16:21 |
| S67 | 1421 | (filter\$3 ) with(flag\$3)  | USPAT | OR | OFF | 2005/07/22 16:21 |
| S68 | 38   | (filter\$3 ) with( flag\$3) .ab.  | USPAT | OR | OFF | 2005/07/22 16:22 |
| S69 | 52   | (filter\$3 ) with( flag\$3) with event\$3   | USPAT | OR | OFF | 2005/07/22 17:22 |
| S70 | 1    | ("4966604").PN.   | USPAT | OR | OFF | 2005/07/22 16:32 |
| S71 | 1    | ("4979951").PN.   | USPAT | OR | OFF | 2005/07/22 16:32 |
| S72 | 1    | ("5643296").PN.   | USPAT | OR | OFF | 2005/07/22 16:33 |
| S73 | 1    | ("5911734").PN.   | USPAT | OR | OFF | 2005/07/22 16:33 |
| S74 | 1    | ("6638233").PN.   | USPAT | OR | OFF | 2005/07/22 16:33 |
| S75 | 25   | (establish\$5 or creat\$5 or generat\$5) with resource\$5 with deadlock   | USPAT | OR | OFF | 2005/07/25 09:26 |
| S76 | 0    | (establish\$5 or creat\$5 or generat\$5) with resource\$5 with deadlock with filter\$3                                | USPAT | OR | OFF | 2005/07/25 09:26 |
| S77 | 3    | (establish\$5 or creat\$5 or generat\$5) same resource\$5 same deadlock same filter\$3                                | USPAT | OR | OFF | 2005/07/25 09:28 |
| S78 | 3671 | (virtual\$3 adj machine\$2)or runtime\$2 with distribut\$5 with task\$3   | USPAT | OR | OFF | 2005/07/25 09:29 |
| S79 | 3646 | (virtual\$3 adj machine\$2)or runtime\$2 with distribut\$5 with task\$3 with client\$3                                | USPAT | OR | OFF | 2005/07/25 09:29 |
| S80 | 3646 | (virtual\$3 adj machine\$2)or runtime\$2 with distribut\$5 with task\$3 with client\$3 with peer\$3                   | USPAT | OR | OFF | 2005/07/25 09:29 |
| S81 | 3646 | (virtual\$3 adj machine\$2)or runtime\$2 with distribut\$5 with task\$3 with client\$3 with peer\$3. ab.              | USPAT | OR | OFF | 2005/07/25 09:29 |
| S82 | 4066 | (virtual\$3 adj machine\$2)or runtime\$2 with distribut\$5 with task\$3 with client\$3 with peer\$3-to- peer\$3.ab.   | USPAT | OR | OFF | 2005/07/25 09:30 |
| S83 | 435  | ((virtual\$3 adj machine\$2)or runtime\$2) with distribut\$5 with task\$3 with client\$3 with peer\$3-to- peer\$3.ab. | USPAT | OR | OFF | 2005/07/25 09:30 |

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|     |    |  |       |    |     |                  |
|-----|----|--|-------|----|-----|------------------|
| S84 | 5  | ((virtual\$3 adj machine\$2) or runtime\$2) with distribut\$5 with task\$3 with client\$3 with peer\$3-to- peer\$3 with workload\$3        | USPAT | OR | OFF | 2005/07/25 09:31 |
| S85 | 5  | ((virtual\$3 adj machine\$2) or runtime\$2) with distribut\$5 with task\$3 with client\$3 with peer\$3-to- peer\$3 with workload\$3        | USPAT | OR | OFF | 2005/07/25 09:31 |
| S86 | 0  | (((virtual\$3 adj machine\$2) or runtime\$2) with distribut\$5 with task\$3 with client\$3 ).ab.   | USPAT | OR | OFF | 2005/07/25 09:31 |
| S87 | 0  | (((virtual\$3 adj machine\$2) or runtime\$2) with distribut\$5 with task\$3 with client\$3 )   | USPAT | OR | OFF | 2005/07/25 09:32 |
| S88 | 45 | (((virtual\$3 adj machine\$2) or runtime\$2) with distribut\$5 with task\$3 )  | USPAT | OR | OFF | 2005/07/25 09:35 |
| S89 | 2  | (((virtual\$3 adj machine\$2) or runtime\$2) with distribut\$5 with task\$3 )same (broker\$3 or layer\$3 or intermedia\$3)                 | USPAT | OR | OFF | 2005/07/25 10:08 |
| S90 | 9  | (((virtual\$3 adj machine\$2) or runtime\$2) same distribut\$5 same task\$3 )same (broker\$3 or layer\$3 or intermedia\$3)                 | USPAT | OR | OFF | 2005/07/25 09:53 |
| S91 | 53 | (((virtual\$3 adj machine\$2) or runtime\$2) same task\$3 )same (broker\$3 or layer\$3 or intermedia\$3)                                   | USPAT | OR | OFF | 2005/07/25 09:53 |
| S92 | 2  | (((virtual\$3 adj machine\$2) or runtime\$2) with distribut\$5 with task\$3 )same (broker\$3 or layer\$3 )                                 | USPAT | OR | OFF | 2005/07/25 10:08 |
| S93 | 39 | (((virtual\$3 adj machine\$2) or runtime\$2) same distribut\$5 same( task\$3 or thread\$5 or application\$3 )same (broker\$3 or layer\$3 ) | USPAT | OR | OFF | 2005/07/25 10:23 |
| S94 | 84 | (((virtual\$3 adj machine\$2) or runtime\$2) same client\$5 same( task\$3 or thread\$5 or application\$3 )same (broker\$3 or layer\$3 )    | USPAT | OR | OFF | 2005/07/25 10:30 |

## EAST Search History

|      |      |   |                              |    |     |                  |
|------|------|---|------------------------------|----|-----|------------------|
| S95  | 57   | (distribut\$5 or sen\$5)same<br>(borker\$3 or lay\$3 or cobra\$3)<br>same ( task\$3 or thread\$5 or<br>application\$3) same((virtual\$3 adj<br>machine\$2) or runtime\$2) | USPAT                        | OR | OFF | 2005/07/25 14:30 |
| S96  | 9    | ("4625081"   "4694396"  <br>"4768150"   "4835685"  <br>"4849880"   "4862349"  <br>"4885681"   "4893307"  <br>"4916608").PN.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/07/25 10:37 |
| S97  | 3    | server\$3 with distribut\$5 with<br>(task\$3 or application\$3 or<br>workload\$3) with (broker\$2 or<br>layer\$3) same (virutal\$3 with<br>machine\$3 or runtime\$3)      | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/07/25 10:42 |
| S98  | 40   | server\$3 same distribut\$5 same<br>(task\$3 or application\$3 or<br>workload\$3) same (broker\$2 or<br>layer\$3) same (virutal\$3 with<br>machine\$3 or runtime\$3)      | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/07/25 11:07 |
| S99  | 1778 | server\$3 same distribut\$5 same<br>(task\$3 or application\$3 or<br>workload\$3) same (broker\$2 or<br>layer\$3 or cobra\$3)   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/07/25 11:08 |
| S100 | 54   | server\$3 same distribut\$5 same<br>(task\$3 or application\$3 or<br>workload\$3) same (broker\$2 or<br>layer\$3 or cobra\$3) .ab.  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/07/25 11:22 |
| S101 | 5    | server\$3 same distribut\$5 same<br>(task\$3 or workload\$3) same<br>(broker\$2 or layer\$3 or cobra\$3) .<br>ab.   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/07/25 11:26 |
| S102 | 210  | server\$3 same distribut\$5 same<br>(task\$3 or workload\$3) same<br>(broker\$2 or layer\$3 or cobra\$3)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/07/25 11:27 |
| S103 | 85   | server\$3 same distribut\$5 with<br>(task\$3 or workload\$3) same<br>(broker\$2 or layer\$3 or cobra\$3)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/07/25 11:27 |
| S104 | 37   | server\$3 same distribut\$5 with<br>(task\$3 or workload\$3) with<br>(broker\$2 or layer\$3 or cobra\$3)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/07/25 11:56 |
| S105 | 18   | client\$3 same distribut\$5 with<br>(task\$3 or workload\$3) with<br>(broker\$2 or layer\$3 or cobra\$3)  | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/07/25 13:48 |
| S106 | 193  | distribut\$5 with (task\$3 or<br>workload\$3) with (broker\$2 or<br>layer\$3 or cobra\$3)   | US-PGPUB;<br>USPAT;<br>USOCR | OR | OFF | 2005/07/25 11:57 |

## EAST Search History

|          |     |  |                    |    |     |                  |
|----------|-----|--|--------------------|----|-----|------------------|
| S23<br>4 | 9   | name\$2 adj pipe\$2 with transfer  | USPAT              | OR | OFF | 2006/09/12 16:00 |
| S23<br>5 | 2   | name\$2 adj pipe\$2 with transfer<br>same database   | USPAT              | OR | OFF | 2006/09/13 09:51 |
| S23<br>6 | 1   | ("5544353").PN.  | USPAT              | OR | OFF | 2006/09/13 10:49 |
| S23<br>7 | 1   | ("4354227").PN.  | USPAT              | OR | OFF | 2006/09/13 11:31 |
| S23<br>8 | 50  | lock\$2 with file\$3 with descript\$5  | USPAT              | OR | OFF | 2006/09/13 11:32 |
| S23<br>9 | 11  | lock\$2 with file\$3 with descript\$5<br>same resource\$3  | USPAT              | OR | OFF | 2006/09/13 11:41 |
| S24<br>0 | 4   | lock\$2 with file\$3 with descript\$5<br>same resource\$3 same (determ\$5<br>or if\$3 or check\$3) | US-PGPUB;<br>USPAT | OR | OFF | 2006/09/13 11:42 |
| S24<br>1 | 11  | lock\$2 with file\$3 with descript\$5<br>same (determ\$5 or if\$3 or<br>check\$3)                  | US-PGPUB;<br>USPAT | OR | OFF | 2006/09/13 14:00 |
| S24<br>2 | 121 | lock\$2 with (file\$3 or descript\$5)<br>same resource\$3 same (determ\$5<br>or if\$3 or check\$3) | US-PGPUB;<br>USPAT | OR | OFF | 2006/09/13 11:58 |
| S24<br>3 | 57  | lock\$2 with (file\$3 or descript\$5)<br>with resource\$3 same (determ\$5<br>or if\$3 or check\$3) | US-PGPUB;<br>USPAT | OR | OFF | 2006/09/13 11:59 |
| S24<br>4 | 11  | lock\$2 with ( descript\$5) with<br>resource\$3 same (determ\$5 or<br>if\$3 or check\$3)           | US-PGPUB;<br>USPAT | OR | OFF | 2006/09/13 12:03 |
| S24<br>5 | 16  | lock\$2 with ( descript\$5) same<br>resource\$3 same (determ\$5 or<br>if\$3 or check\$3)           | US-PGPUB;<br>USPAT | OR | OFF | 2006/09/13 12:03 |
| S24<br>6 | 1   | ("6141759").PN.  | USPAT              | OR | OFF | 2006/09/13 14:00 |